

09/768,414

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text" value="1"/> of <input type="text" value="1"/>	Complete if Known	
	Application Number: 09/768,414	
	Filing Date: 1/24/2001	
	First Named Inventor: M. Seul, et al.	
	Group Art Unit:	
	Examiner Name:	
Attorney Docket Number: PARSE-C2		

Exami ner Initials	U.S. Documents	U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number		
	US 5,480,723	Klainer et al.	01/02/1996
	US 5,814,524	Walt et al.	09/29/1998
	US 5,496,997	Pope	03/05/1996
	US 5,512,490	Walt et al.	04/30/1996
	US 5,565,324	Still et al.	10/15/1996
	US 5,567,627	Lehnen	10/22/1996
	US 5,633,724	King et al.	05/27/1997
	US 5,633,972	Walt et al.	05/27/1997
	US 5,650,488	Lam et al.	07/22/1997
	US 5,652,059	Margel	07/29/1997
	US 5,674,698	Zarling et al.	10/07/1997

Examine r Signatur e		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket:	Serial No.:
	LEADS DC4	10/227,246
	Applicant:	
	Seul et al.	
Filing Date:		Group Art Unit:
10/17/00 8/23/02		1

U.S. PATENT DOCUMENTS						
Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS						
Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)	
	Materials from Freedom of Information Act pertaining to David R. Walt

Examiner	Date Considered
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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.: 4

SERIAL NO.:

LEAPS-DC4

10/227,246

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 8/23/02

GROUP:

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA 5 1 9 4 3 0 0	3/18/93	Cheung	427	213.31	11/8/89
	BB 5 2 4 4 8 1 3	9/14/93	Walt et al	438	172	4/20/92
	BC 5 2 4 4 8 3 8	9/14/93	Walt et al	422	82.07	1/25/91
	BD 5 2 5 0 2 6 4	10/5/93	Walt et al	422	82.07	12/21/92
	BE 5 2 5 2 4 9 4	10/12/93	Walt	438	528	3/30/92
	BF 5 2 5 4 4 7 7	10/18/93	Walt	438	172	9/19/91
	BG 5 2 8 8 7 4 1	3/28/94	Walt et al	250	227.23	1/13/93
	BH 5 3 0 8 8 1 8	4/28/94	Prober et al	435	8	1/16/92
	BI 5 3 2 0 8 1 4	6/14/94	Walt et al	422	82.07	11/25/92
	BJ 5 3 8 2 8 5 3	11/8/94	Carr et al	438	185	5/8/92
	BK 5 4 0 5 7 8 4	4/11/95	Van Hoegaarden	438	523	2/25/93

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	BL	8	3	0	8	1	2	1	4/1/93	PCT	C07H	21/00		X
	BM	9	3	2	4	5	1	7	12/8/93	PCT	C07K			X
	BN	8	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X
	BO													
	BP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BD	Barnard, et al. "A fibre-optic chemical sensor with discrete sensing sites," <i>Nature</i> , vol. 353: 338-340 (1991).
BR	Campion, et al. "Colored and Fluorescent Solid Supports," <i>Innovation and Perspectives in Solid-Phase Synthesis</i> , Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," <i>SPIE</i> , vol. 2388: 245-258 (1995).

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DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09/268,44

Sheet 4 of 9

FORM PTO-1449
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 400-11-0004

SERIAL NO.:

LEAPS-DCY

10/22/94

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 18-1

8/23/02

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5	4	8	0	7	2	3	1/2/88	Klainer et al	428	441	5/17/94
	CB	5	8	1	4	5	2	4	9/28/98	Walt et al.	438	518	12/14/95
	CC	5	4	8	8	8	9	7	3/5/88	Pope	250	227.21	1/3/94
	CD	5	5	1	2	4	9	0	4/30/98	Walt et al.	438	171	8/11/94
	CE	5	5	8	5	3	2	4	10/15/88	Still et al.	435	8	4/13/94
	CF	5	5	8	7	8	2	7	10/22/88	Lehnen	438	518	11/5/93
	CG	5	8	3	3	7	2	4	5/27/87	King et al.	358	445	8/28/95
	CH	5	8	3	3	8	7	2	5/27/87	Walt et al.	385	118	11/29/95
	CI	5	8	5	0	4	8	8	7/22/87	Lam et al.	530	334	8/19/91
	CJ	5	8	5	2	0	5	8	7/28/87	Margel	428	403	1/25/95
	CK	5	8	7	4	8	8	8	10/7/87	Zerling et al.	435	7.82	3/30/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	CL													
	CM													
	CN													
	CO													
	CP													

OTHER PRIOR ART (Including Author, Title, Date, Portion: Pages, Etc.)

CQ	Grazia et al., "In-vivo biomedical monitoring by Fiber-Optic System," Journal of Lightwave Technology, 13, 1398-1408 (1995).
CR	Bangs, "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (April 1996)
CS	"Fluorescent Microspheres (Tech. Note #18)," Bangs Laboratories (1997)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09/268,414
 Sheet No. 5 of 9

FORM PTO-1449
 (REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
 PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 401,000,000,004

SERIAL NO.:

LEADS-DCY

10/227,846

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1

8/23/02

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5	6	8	0	8	8	4	11/25/87	Pinkel et al.	422	68.1	5/23/95
	DB	5	7	0	0	8	9	7	12/23/87	Klainer et al.	528	15	5/30/95
	DC	5	7	7	9	9	7	6	7/14/98	Leland et al.	422	52	6/5/95
	DD	5	9	3	8	0	2	1	8/17/89	Hansen et al.	422	55	1/23/97
	DE	5	9	8	1	8	2	3	10/5/98	Nova et al.	422	68.1	8/30/98
	DF	5	9	8	6	4	5	2	10/12/89	Kovacs	438	149	7/9/98
	DG	8	0	4	8	8	8	0	4/11/00	Heller et al.	435	8	5/14/97
	DH	8	0	8	0	6	4	6	7/18/00	Wohlstadter et al.	435	8	3/8/97
	DI	8	0	8	0	8	1	2	7/18/00	Labl et al.	530	300	11/23/98
	DJ	8	2	0	0	7	3	7	3/13/01	Welt et al.	430	320	8/24/95
	DK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	DL													
	DM													
	DN													
	DO													
	DP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DO	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1758 (1997).
DS	Scott et al., "Properties of fluorophores on solid phase resins; Implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1587-1572 (1997).

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09/768,414
Sheet No. 6 of 9

FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:
404,106,810,000

SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

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LEAPS-DCY

10/227,296

APPLICANT(S): SEUL, Michael

FILING DATE: 8/23/02

GROUP: 1

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
	EC						
	ED						
	EE						
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	EH						
	EI						
	EJ						
	EK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EQ	Healey et al, "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
ES	

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DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 6:09; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09/768,414 7089
Sheet 2 of 2

FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. D JCKET NO.: ~~00000000~~

SERIAL NO.:

LEAPS-DC4

10/227,246

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: October 12, 2000

GROUP: .11

8/23/02

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BG							
	BH							
	BI							

OTHER PRIOR ART (including Author, Title, Date, Patent Pages, Etc.)

BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 708-709 (1996)
BK	Sau et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267: 478-483 (1995)
BL	Schann et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270: 467-470 (1995)
BM	Hamb et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)
BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45: L-1137 to L-1143 (1984)
BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 382-430 (2 nd Edition) (Wiley Interscience 1981)
BP	
BQ	
BR	

EXAMINER

DATE CONSIDERED

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FORM PTO-1448
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

LEADS-DCY 10/227,296
APPLICANT(S): SEUL, Michael

FILING DATE:

GROUP:

8/23/02

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3 8 9 8 5 2 5	12/21/78	Giglin	350	160	08/21/75
AB	4 0 7 5 0 1 3	02/21/78	Ward et al.	88	1.5	09/13/76
AC	4 4 5 8 5 1 3	06/28/84	Kawal et al.	204	180	08/25/82
AD	4 5 7 5 4 0 7	03/11/88	Diller	204	87	10/24/84
AE	4 5 8 1 5 5 0	05/27/88	Hafeman et al.	435	4	04/05/84
AF	5 4 4 4 3 3 0	08/22/85	Leventis et al.	313	508	02/18/93
AG	5 5 8 7 1 2 8	12/24/88	Wüding et al.	422	50	11/14/94
AH	5 4 8 8 3 8 2	03/12/98	Wüding et al.	422	68.1	09/19/94
AI	5 8 5 5 7 5 3	01/05/99	Trau et al.	204	484	11/26/96
AJ	8 0 3 3 5 4 7	03/07/00	Trau et al.	204	822	01/04/99
AK						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
AL 8 8 0 4 5 4 7	02/15/98	PCT	G01N	27/00	
AM					X
AN					
AO					
AP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 388.8: 57-59 (1997)
AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 8334-8336
AT	Seid et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 282: 558-560 (1993)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 8/23/82

GROUP: 1001

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 4 7 1 7 6 5 5	01/05/88	Fuhrwyler	435	7	10/15/84
	AB 5 5 7 3 8 0 8	11/12/88	Singer et al.	435	8	05/20/94
	AC 5 5 8 5 0 6 8	12/17/88	Zanzucchi et al.	422	100	11/10/94
	AD 5 5 9 3 8 3 8	01/14/87	Zanzucchi et al.	435	8	05/31/95
	AE 5 7 2 3 2 1 8	03/03/88	Hauptmann et al.	428	402	06/07/95
	AF 5 7 4 4 3 0 5	04/28/88	Fodor et al.	435	8	06/08/95
	AG 5 8 0 7 7 5 5	09/16/88	Ekins	438	518	05/23/95
	AH 5 8 3 7 5 5 1	11/17/88	Ekins	438	518	12/23/94
	AI 5 8 7 4 2 1 8	02/23/89	Rava et al.	435	8	04/09/96
	AJ 5 9 8 8 8 3 5	11/23/89	Dunlay et al.	435	7.2	02/27/97
	AK 8 0 2 3 5 4 0	02/08/90	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
														YES	NO
	AL	9	5	1	2	8	0	8	05/11/95	PCT		G01N	21/00		X
	AM	9	8	0	7	8	1	7	03/14/98	PCT		G01N	35/00		X
	AN	9	7	4	0	3	8	3	10/30/97	PCT		G01N	33/543		X
	AO	9	8	0	8	0	0	7	02/12/98	PCT		G03F	7/00		X
	AP	9	8	5	3	3	0	0	11/28/98	PCT		G01N	21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Micheletto et al., <i>Longmire</i> , vol. 11, 3333-3338 (1995)
AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
AT	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09/768,414

**BIOARRAY SOLUTIONS****FAX COVER PAGE****To:** Ollie Person**From:** Eric Mirabel;

emirabel@bioarrays.com

Company: PTO**Phone:** 908-226-8200, Extension 203**Fax:** 704 408 6642**Date:** 04/01/2005**Re:** 09/768414**Pages:** 2 Including cover☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

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In addition to the last fax I sent, I believe that the following sheet may have the references that are illegible in the original 1449 listed. Please check and verify. Thank you